

Yan Yaqiang
Riesz angles of Orlicz sequence spaces

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Abstract: We introduce some practical calculation of the Riesz angles in Orlicz sequence spaces equipped with Luxemburg norm and Orlicz norm. For an N -function $\Phi(u)$ whose index function is monotonous, the exact value $a(l^{(\Phi)})$ of the Orlicz sequence space with Luxemburg norm is $a(l^{(\Phi)}) = 2^{\frac{1}{c_{\Phi}^0}}$ or $a(l^{(\Phi)}) = \frac{\Phi^{-1}(1)}{\Phi^{-1}(\frac{1}{2})}$. The Riesz angles of Orlicz space l^{Φ} with Orlicz norm has the estimation $\max(2\beta_{\Psi}^0, 2\beta'_{\Psi}) \leq a(l^{\Phi}) \leq \frac{2}{\theta_{\Phi}^0}$.

Keywords: Orlicz space, N -function, index function, Riesz angle

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